State Water Resources Control Board
Temporary Urgency Change Order (6/14/2021)

Russian River Hydrologic Report
November 19, 2021 - November 25, 2021

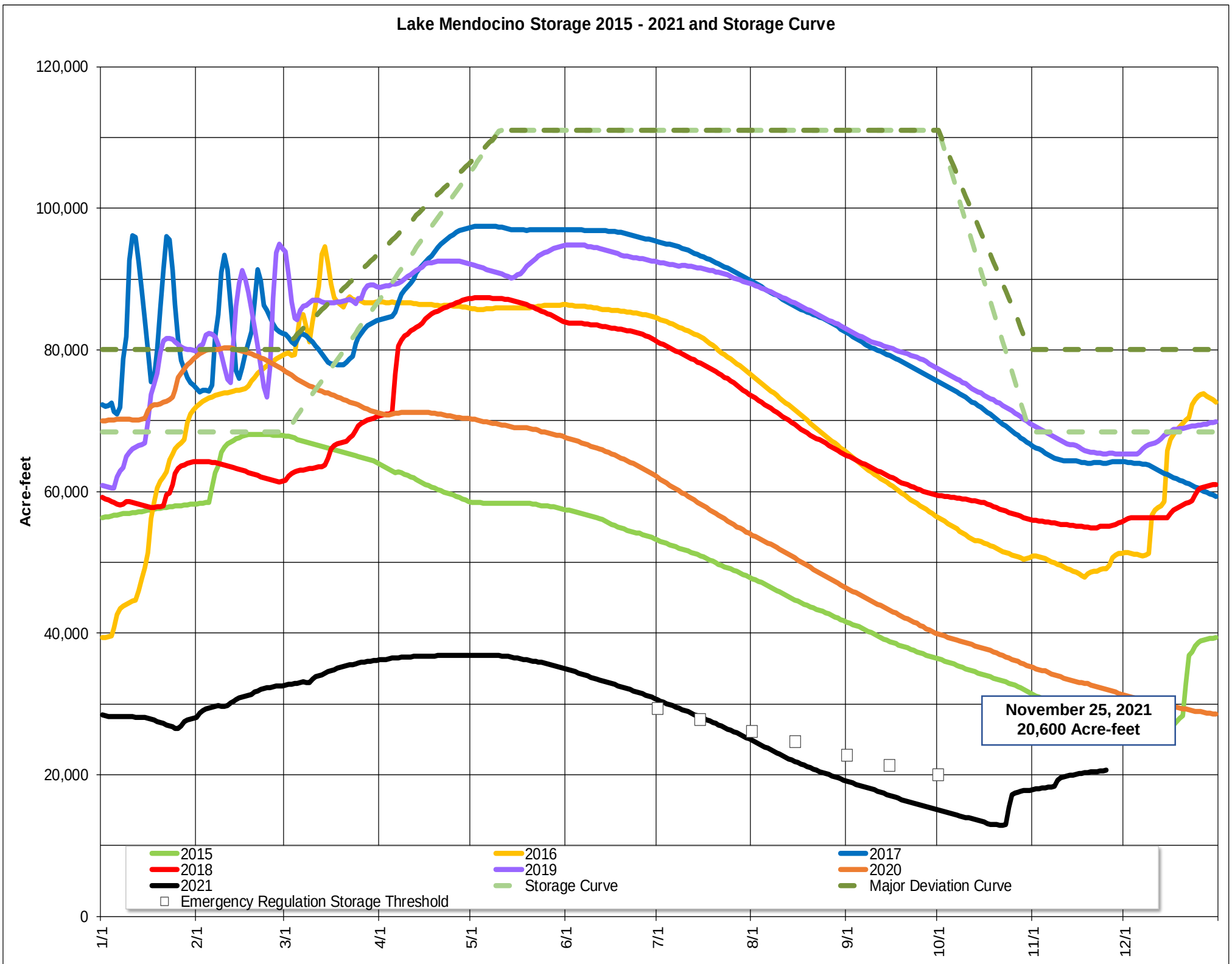
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of November 25, 2021

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Critical Condition	Upper Russian River	**15**	**25**
D-1610: Dry Condition	Dry Creek	**25**	**-**
Modified Per Order: Critical Condition	Lower Russian River	**25**	**35**

Upper Russian River and Lower Russian River based on criteria as established in the Order issued 6/14/2021.

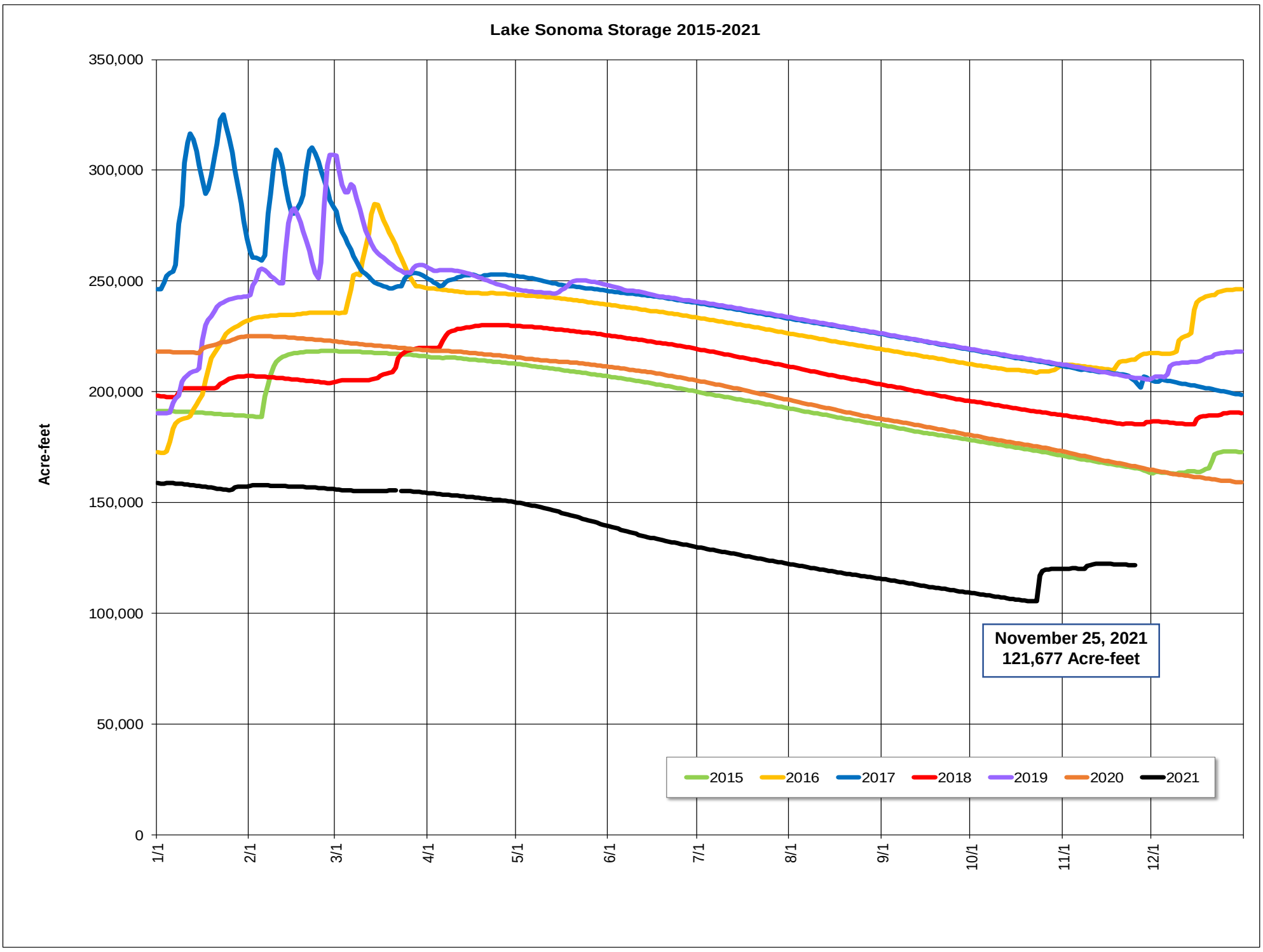
Lake Mendocino



Storage (acre-feet)	November 25, 2021	**20,600**	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	**3,141**	**105**
	Last 7 days	**288**	**41**
Daily Inflow (cfs)	Last 7 days	Min	**51**
		Max	**68**
		Mean	**56**
Release (cfs)	Last 7 days	Min	**29**
		Max	**29**
		Mean	**29**

Lake Sonoma

Nathan Baskett, March 3 , 2011



Storage (acre-feet)	November 25, 2021	**121,677**	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	**2,031**	**68**
	Last 7 days	**-528**	**-75**
Daily Inflow (cfs)	Last 7 days	Min	**20**
		Max	**78**
		Mean	**39**
Release (cfs)	Last 7 days	Min	**75**
		Max	**76**
		Mean	**76**

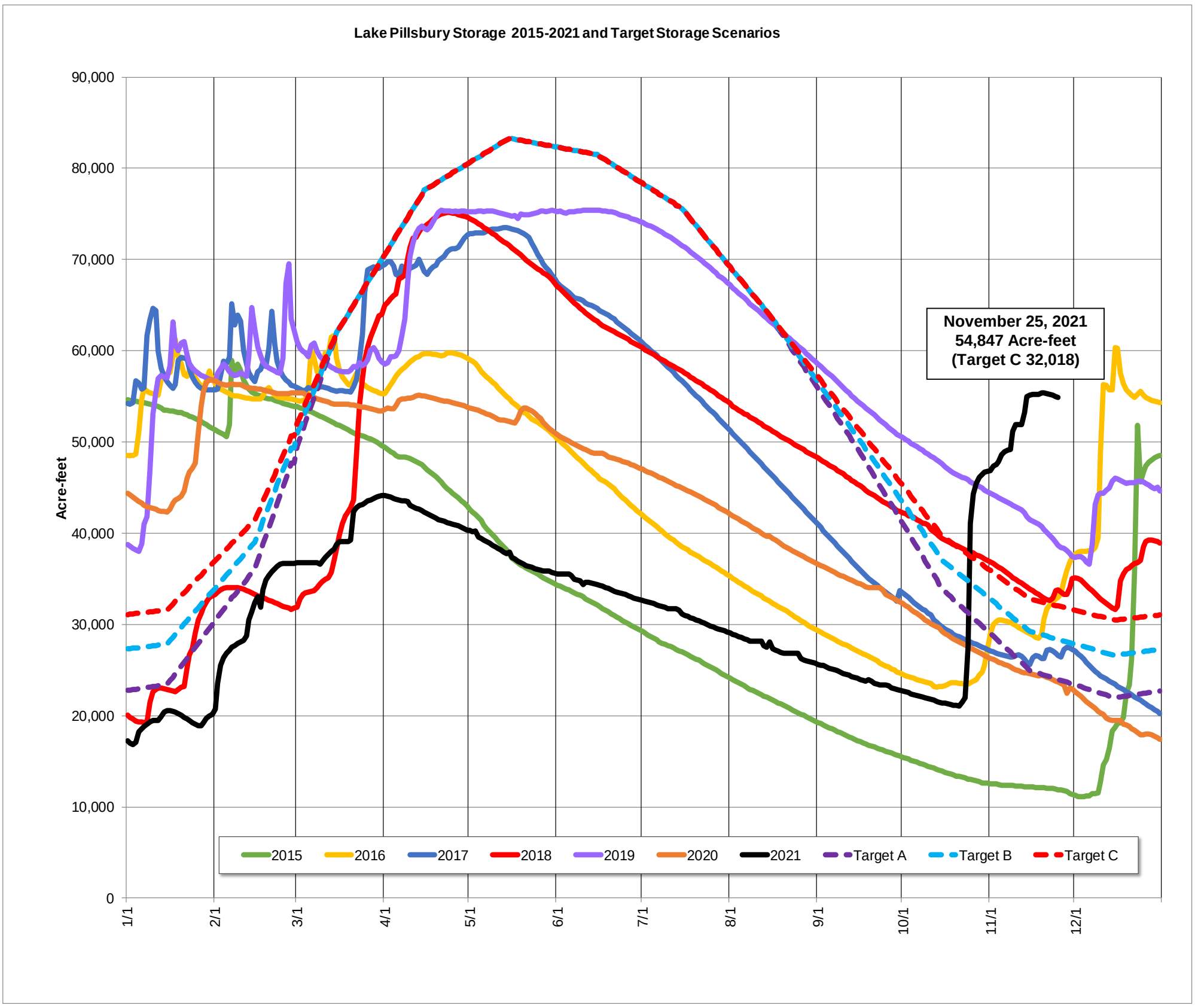
Potter Valley Project

PVP Diversion (cfs)	November 25, 2021	**43**

Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - November 25, 2021	**47,325**	**845**
	Last 7 days	**2,432**	**347**

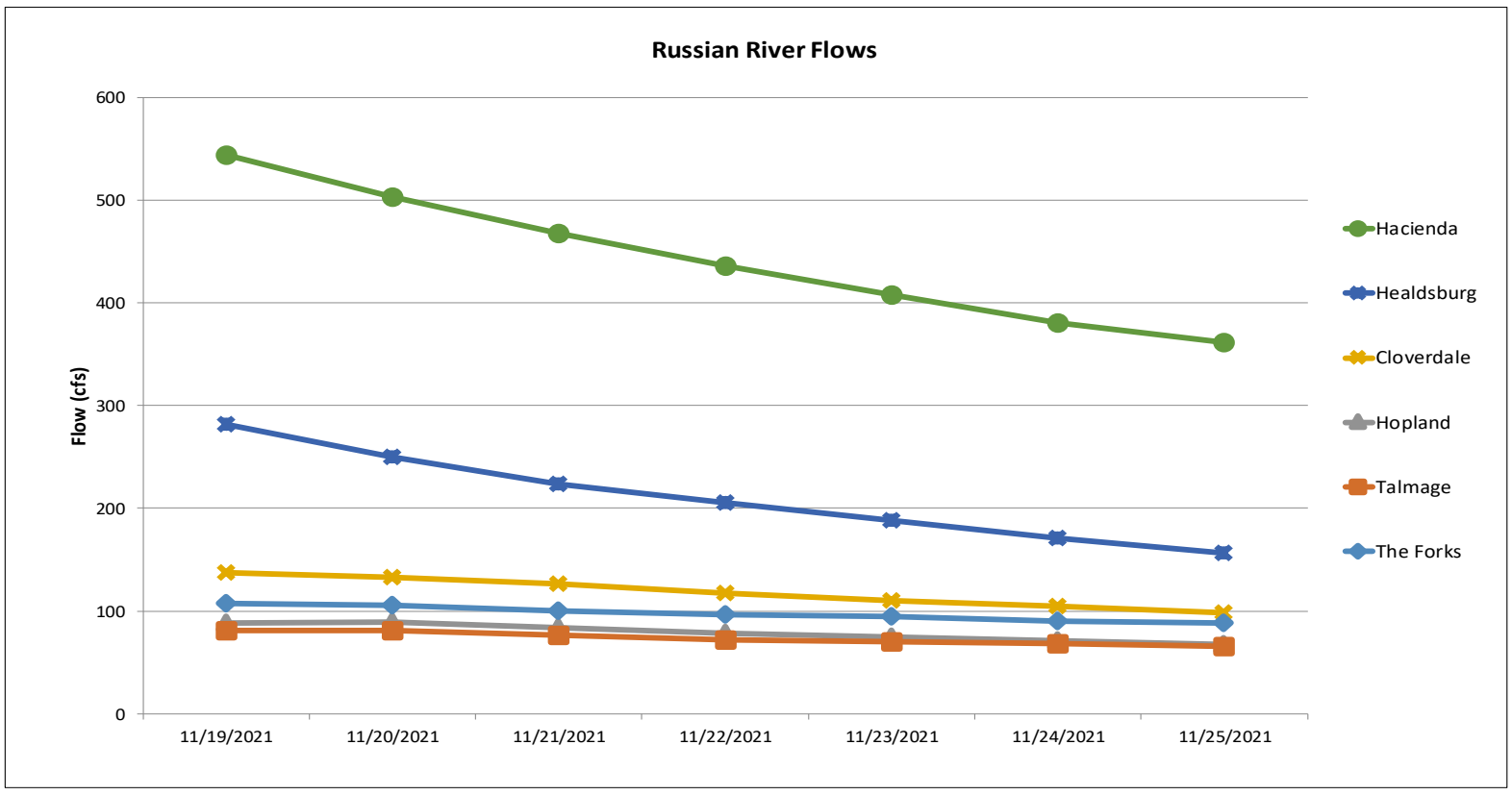
*Inflow calculation based on criteria established in D1610



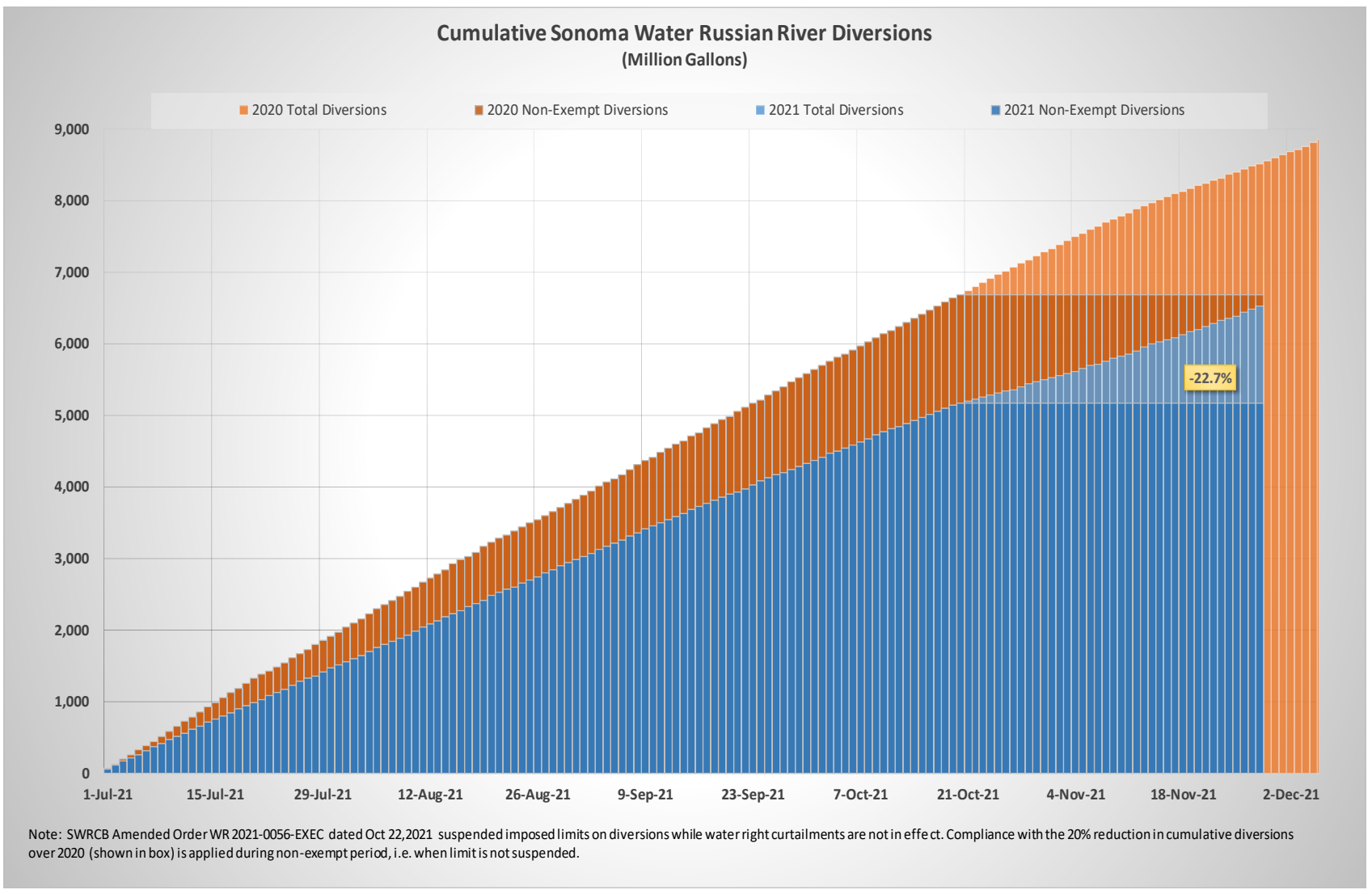
Russian River Flows (November 19 - November 25, 2021)

Gage	24-hr Average Flow (cfs)						
	Nov 19, 2021	Nov 20, 2021	Nov 21, 2021	Nov 22, 2021	Nov 23, 2021	Nov 24, 2021	Nov 25, 2021
The Forks*	107	106	100	96	94	91	88
Talmage USGS 11462080	81	81	76	72	70	68	66
Hopland USGS 11462500	88	89	83	78	75	71	67
Cloverdale USGS 11463000	138	133	126	117	110	105	99
Healdsburg USGS 11464000	282	250	224	205	188	171	156
Hacienda USGS 11467000	544	503	468	436	408	381	362

*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Sonoma Water River Diversions (July 1 - November 25, 2021)



Note: SWRCB Amended Order WR 2021-0056-EXEC dated Oct 22,2021 suspended imposed limits on diversions while water right curtailments are not in effect. Compliance with the 20% reduction in cumulative diversions over 2020 (shown in box) is applied during non-exempt period, i.e. when limit is not suspended.

Russian River Fisheries Monitoring

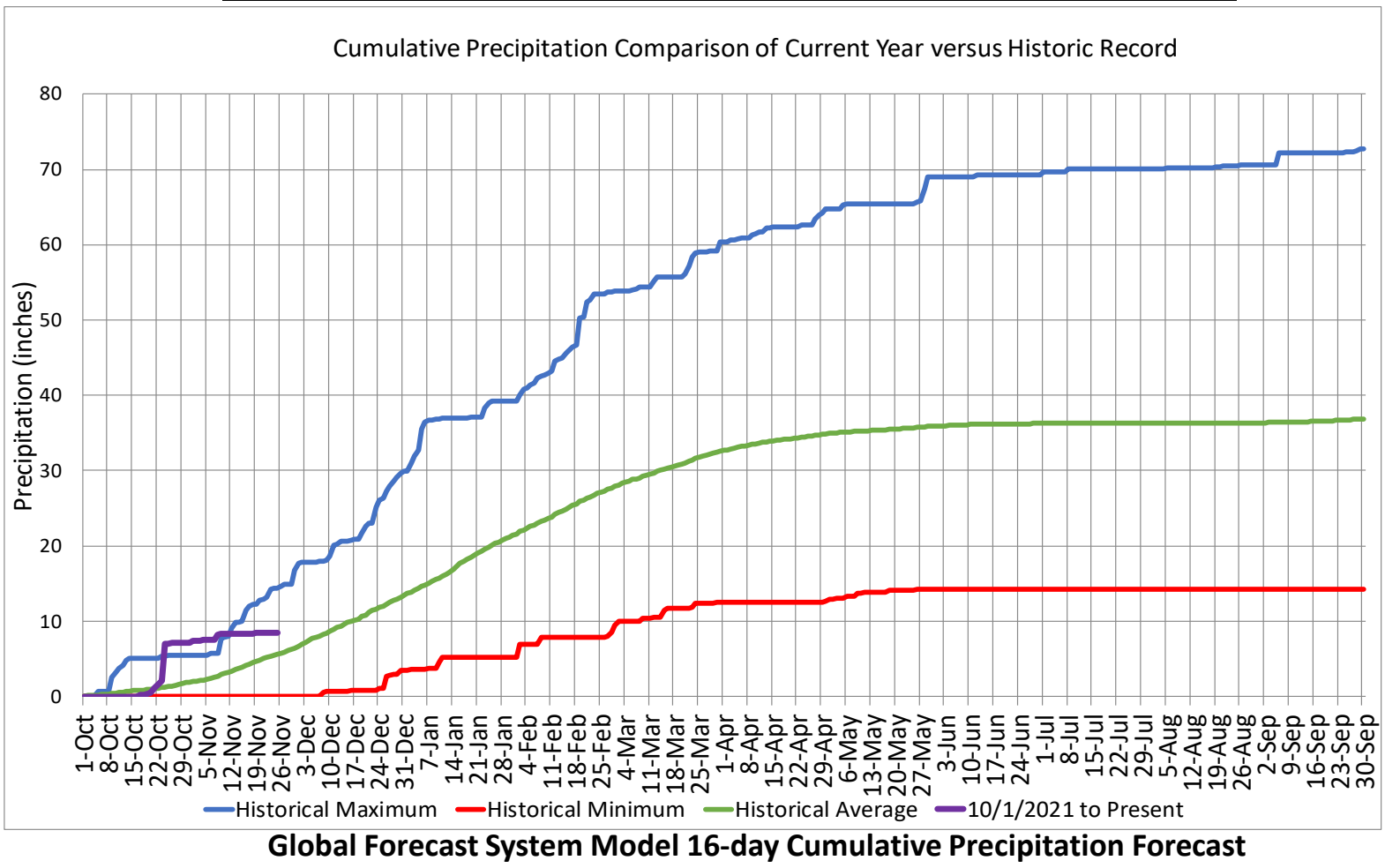
Sonoma Water conducted walk in and boat-based Chinook salmon spawner surveys on the mainstem Russian River from November 17, to November 26, 2021. In total, we observed 39 salmon redds. We have a high degree of confidence that 26 of those redds were constructed by Chinook. We have a lower degree of confidence in 13 older salmon redds that were less well defined. In addition to salmon redds, 6 live adult Chinook salmon were observed. Due to high flow events that occurred prior to these surveys, it is possible that more redds were present but went undetected because high water velocities rearranged stream gravel making redds difficult to detect.

Reach	New Redds	Old Redds	Adult Chinook
Canyon - Lower	4	0	1
Canyon - Middle	5	2	0
Alexander Valley - Lower	1	0	1
Alexander Valley - Upper	14	11	3
Healdsburg - Lower	0	0	0
Healdsburg - Upper	2	0	1
Grand Total	26	13	6

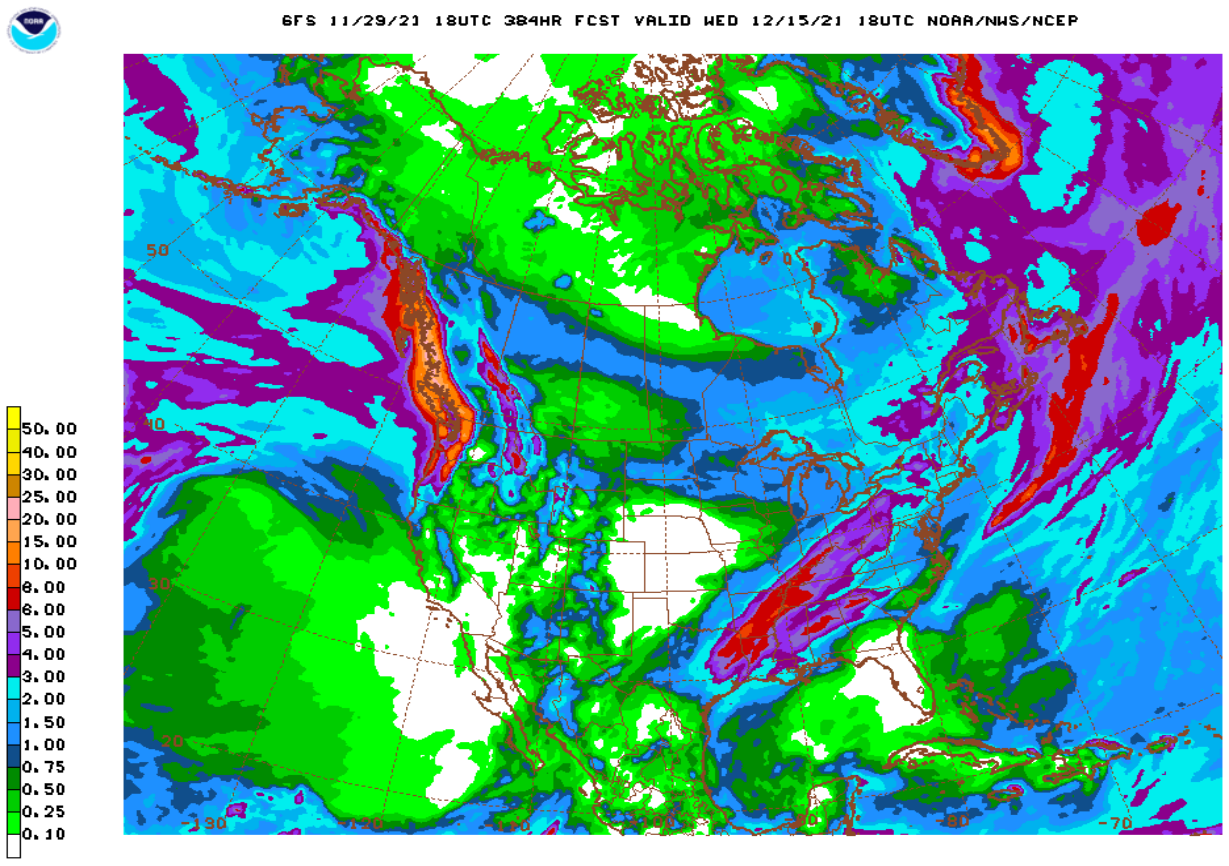
Table 1. The number of new salmon redds, old salmon redds, and adult Chinook salmon observed during spawner surveys conducted on the mainstem Russian River from November 17, to November 26, 2021.

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Nov 25, 2021	**8.48**
Last 7 Days*	**0.14**



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Nov 29 - Dec 15, 2021	**0.4**